



Technical Data Sheet

BC Anti-Carbo Primer

Silane–Siloxane Penetrating Anti-Carbonation Primer

1). Product Description

BC Anti-Carbo Primer is a single-component, ready-to-use silane–siloxane penetrating primer designed to protect reinforced concrete, bridge decks, pavements, parking structures, and exposed surfaces against chloride intrusion, carbonation, moisture ingress, atmospheric contaminants, oils, and fuel spills. It chemically reacts within the concrete pores to form a deep hydrophobic barrier that significantly reduces water absorption and chloride penetration while allowing substrate breathability.

2). Features & Advantages

- Transparent, deep-penetrating hydrophobic treatment
- Provides powerful chloride and carbonation barrier
- Prevents reinforcement corrosion caused by chloride ingress
- Minimizes surface scaling on new concrete
- High resistance to moisture, oils, fuels, and contaminants
- Allows water vapor to escape (breathable system)
- Improves service life of concrete structures
- Suitable for both old and new concrete
- Durable and highly economical

3). Typical Uses

- Parking Structures
- Ramps & Bridges
- Lane Barriers
- Exposed Concrete Surfaces
- Marine and Coastal Structures
- Industrial Concrete Floors
- Concrete subject to atmospheric contaminants



4). Technical Data

Property	Test / Condition	Result
Type	–	Silane–Siloxane
Appearance	–	Transparent Liquid
Flash Point	–	50°C
Drying Time – Foot Traffic	@ 25°C	4–6 hours
Drying Time – Wheel Traffic	@ 25°C	10–12 hours
NCHRP #244 (Chloride Intrusion Test)	% Weight Gain (Untreated)	2.70%
	% Weight Gain (Treated)	0.20%
	Repellency Factor	94%
NCHRP #244 (Water Absorption Test)	% Weight Gain (Untreated)	4.90%
	% Weight Gain (Treated)	0.37%
Scaling Resistance (ASTM C672)	Untreated	Moderate to Severe

5). Surface Preparation

- Concrete must be completely free of dust, dirt, oil, grease, tar, curing membranes, laitance, or contaminants that reduce absorption.
- Ensure all sealants and joint materials are installed before primer application.



- **For new concrete:**
 - If curing compound was used, remove it using high-pressure water or mechanical scrubbing.
 - Concrete must be at least 45 days old for maximum absorption.
- **For old concrete:**
 - Remove all foreign matter using pressure washing or mechanical cleaning.
 - Membranes, coatings, and paints must be fully removed.
- Surface must be dry for at least 24 hours.

Application

Horizontal Surfaces

1. Apply using low-pressure sprayer, roller, or soft broom.
2. Spread evenly to avoid puddling.
3. Apply two coats wet-on-wet.
4. Redistribute any standing primer immediately.

Vertical Surfaces

1. Apply using sprayer, roller, or brush from bottom to top.
2. Apply the second coat immediately while first coat is still wet.

Before Overcoating

- Allow a minimum of 2 hours drying before applying BC Anti-Carbo Finish or any topcoat.
- Do not apply finish coat until substrate is fully dry.

6). Coverage

- 5–7 m² per liter (two wet-on-wet coats)
Coverage may vary depending on porosity, temperature, and absorption rate.



7). Packing

- 20 kg Pail

8). Shelf Life & Storage

- 18 months in original unopened packaging.
- Store in a cool, dry, shaded area at 5°C–30°C.
- Keep sealed when not in use.

9). Health & Safety

- Flammable liquid. Keep away from sparks, heat, and open flames.
- Use with adequate ventilation and avoid inhalation of vapors.
- Avoid skin or eye contact; wear proper PPE.
- Clean tools using Xylene or mineral spirits.
- Refer to SDS for further information.

DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

